SDMS US EPA REGION V -1

SOME IMAGES WITHIN THIS DOCUMENT MAY BE ILLEGIBLE DUE TO BAD SOURCE DOCUMENTS.

SAMPLING DATA

KEN MENSING - COLLINSVILLE 9:45 as 23810 Lab # Time Collected: $\mathcal{I}\mathcal{D}\mathcal{C}$ SPECIAL ANALYSIS FORM Date Received JAM 25 1902 Date Collected: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL COUNTY: FILE HEADING: FILE NUMBER: SALIGET ST CLAIR ヘナロ SOURCE OF SAMPLE: (Exact Location) VACUUM CLOTH FILTER CAKE OFF CONVEYOR DUM PSTFR RELATIVELY AND PARE PHYSICAL OBSERVATIONS, REMARKS: MODERNOTO 1-EN ORGANICA - CHLOROPHENOLS TESTS REQUESTED: THU RELATED COMPONIOS-DICK MAHLANDT DURC COLLECTED BY: TRANSPORTED BY: LABORATORY DATE DATE RECEIVED BY: COMPLETED: FORWARDED: enes = /20.40 bennenes = 820. Mg Dichlorobenzene = 350, ug/g Chloronitrobenzene = 120 ug/g Dichloronitrobenzene= 210. ug, Aliphatic hydrocarbons = 410, ug/a 2-Nitro-N-pheny laniline = 320. us/a Methylhepta decylbenzene = 300. ug/g other d anomatic compounds (NOT FOR DATA PROCESSING) LPC-8A 4/77 DC 23810

with of the thirty of

MATA IN UNITS OF MICROGRAMS PER CRAM OF SAMPLE (P. P. M.) UNLESS

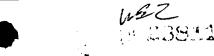
ENVIRONMENTAL PROTECTI

		works or sample from	m., oni
ION	AGENCY	STHERWISE INDICATED.	BASED

DIVISION OF LAND/NOISE POLLOTION CONTROPRY/WEIGHT, OF 03 ° C. 48 HOU!	LS.
Key for Determining Type of Monitoring Point	
(S) Surface Water (C) Ground Water (L) Leachate (X) Special	27
(1) Uputream (1) Monitor Well (1) Flow or (1) Soil seep	31
(2) Mid-site (2) Private well (2) Pond (2) Waste	
(3) Downstream (3) Spring (3) Collection (3) Other	37
(4) Run-off (4) Lysimeter System (5) Impounded	44
() / Impo Into I	49
Name (Private Well, Stream, Spring, Impounded Water only)	53
	58
$\frac{L P C S M}{(1)} \frac{O}{(8)} \frac{1}{(8)} \frac{O}{NUMBER} \frac{O}{(9)} - \frac{O}{(16)}$	64
MONITOR POINT $\frac{X}{(17)} = \frac{0}{(20)}$ DATE $\frac{0}{(21)} = \frac{0}{(21)} = \frac{0}{(26)}$	69
ST CLAIR CO LPC REGION #	73
$C_{2}(C) = \frac{1}{1} \left(C_{2}(AC) + C_{2}($	27
SALLGET / CEWASE TI FATMINT PLANT (Location) (Responsible Party)	33
Legal (1); Illegal (2); Indicate One: Board Order (X) (29)	39
Time Collected 9:45 (a.m. Unable to collect sample (X) (30)	45
Stick-up ft. Depth to water ft.	52 56
Cample temp. Cample temp. Sample temp. Samp	61
(37) (39) 40)	65
Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) (41)	70
Sample Appearance: CAKE FROM VACUUM CLOTH	
FILTER	27
Collector comments:	32
	38
Niji Collected by. Collected by. Div. or Company	45
Null Collected by. Div. or Company	51
biv. or company	56
Transported by Div. or Company	1
LAB USE ONLY LPCSM020	60 63
Lab No.	1
Date Rec'd UAR (5 1911. (27) $h e n o l i c s - (36)$	70 75
Rec'd by fine a.m. $\frac{1}{1}$ $\frac{h}{2}$ $\frac{g}{h}$ $\frac{g}{h}$ $\frac{f}{h}$ $\frac{g}{h}$ $\frac{g}{h}$ $\frac{f}{h}$ $\frac{g}{h}$	
Sample temps determined the NO	27
Date completed $(\frac{\sqrt{27}}{27})^{-1}$	31
Late forwarded MAR 1999	38
Supervisor Signature # A g / K g	44
$\mu \pm \cdot $	49
Name (67) (76)	53
of Lab Private Lab (X)	
IEPA Lab (X) (78)	58 63
	0.3

IEPA - CHAMPAIGN LAB JAN. 29. 1982

d samples. *Values in the lab comments section; explained in the lab



LPCSM030 PARAMETERS + PPM* .<u>x x x x</u> Alkalinity^l 27 31 Ammonia as N 37 Arsenic As Barium Ba 44 <u>.x</u>_ <u>X</u> X BOD -5 49 <u>X X</u> X 53 Boron B Х Χ 58 Cadmium Cd X - X - XCalcium Ca 64 .Х Х X 69 $X \times X \times X$ 73 Chloride C1

	LPC	CSM040
\mathbb{Z}	Chromium Cr (tot)	_550·xx
	Chromium Cr ⁺⁶	, <u>x x</u>
\times	Copper Cu	5400xx
\times	Cyanide ² CN #	6.9x
	Fecal Coli (#/100 mi)	х х х,
	Fluoride F	<u>X_X_X</u>
	Hardness CaCO3	<u>.x_x_x_x</u>
X	Iron Fe56E3	56 X X X
X	Lead Pb	1500. x x

		LPO	SM	050						
27	X	Magnesium Mg	7	3	0	٥	·	Х	χ	<u>X</u>
32	Y	Manganese Mn		1	7	0	·		X	<u>x</u>
38	×	Mercury Hg				5	<u>ء</u> .	2		
4 6	X	Nickel Ni	4	2	0	٥	•	Х	χ	<u>x</u>
51		Nitrate-nitrite N					<u> </u>	Х	Х	Х
56		Oil and Grease					. <u>x</u>	χ	X	<u>X</u>
60		ph (Units)	χ	Х				Х	<u> 1.</u>	<u>X</u>
53	X	Phenolics				2	. 0	U	>	X
70		Phosphorus P		_	_	_	•		χ	χ
7 5	X	Potassium K		6	8	0	·	Х	X	X
LPCS1,060										

		0011000
	R.O.E. (180°C)	<u> </u>
X	Selenium Se	16· <u>x</u>
X	Silver Ag	<u>/5</u> <u>x</u> x
	Sodium Na	<u>X X X</u>
	SC (umhos/cm)	<u> </u>
	Sulfate SO ₄	<u> </u>
X	Zino Zn	LLE3.XXX
	% Jalids	30.6
_		

¹Alkalinity is to be determined as ppm of CaCO3 at pH 4.5.

²Cyanide is to be reported as free cyanide.



and the control of th		_		(94-
GRAM OF SAMPLE (P. P. M.	•			
OTHERWISE INDICATED. B	•		<u>.</u>	NM030
LET THE SECURITY POLICY OF POLICY OF THE PROPERTY OF THE PROPERTY OF THE POLICY OF THE	8 HOUTS	<u> </u>	ARAPETERS .	FIME
<pre></pre>			Alkalimity ¹	x_x_v
Programm (1) Minister Will (1) Flow or (1) Soil	27	Н		Y Y
recp (2) frivate well (2) Fond (2) Whate		\forall	Ammonia as N	79
D.willtream (3) Opring (3) Collection (3) Other	37		Arsenio As	7 - A y
	44	$ \mathcal{L} $	Bariım Ba	<u> 3 7 0 · </u>
	49	\vdash	BOD -5	<u> </u>
Truse Trivate Well, Stream, Spring, impounded Water only)	53	-	Boren b	<u></u>
$\frac{1}{1} \stackrel{P}{=} \frac{3 \text{ if } 9}{1} \frac{1}{(8)} \frac{3}{(8)} \qquad \text{SITE INVENTORY} $ NUMBER (9)	<u>-</u> , 58	\times	Cadmium Cd	<u>210. </u>
• /	6) 64	_	Calcium Ca	. <u>X X (</u>
DATE OINT $(\overline{26})$ DATE $(\overline{26})$ DOLLECTED $(\overline{21})$ $(\overline{26})$	69	_	COD	<u> </u>
4 Van/Aut	73	L	Chloride Cl	.х х х
Co Lie Co REGION # (27)	11		L.P	USM040
CAMPER TO SUMMER SERVICES	_ 27	У	Chromium Cr (tot)	_550· <u>\</u>
(Responsible Party)	/ ₃₃		Chromium Cr ⁺⁶	, X (
Board Order (X	1.1	$\overline{\lambda}$	Copper Gu	5400.
(28)	(29)	$\frac{1}{x}$	Cyanide ² CN #	6.9
Time of elected $\frac{(\lambda)}{(30)}$ ($\frac{a.m.}{p.m.}$ Unable to collect sample (λ)	} · · ·		Fegal Coli	ν
Depth to waterft. (from T.O.C.)	56	-	· · · · · · · · · · · · · · · · · · ·	
		-	Fluoride F	Y Y Y
$\frac{\text{Sackground }(X)}{(\overline{37}-(\overline{39}))} \qquad \qquad \text{Background }(X)$	bi		Hardness CaCO3	E 3 A
From ther sampled by (Endicate one): (1) Bailing;	65	K	Iron Fe5663	2 2 2
(41) Funping; (3) Other (Sp cify)		<u> </u>	Lead Pu	1500.
Sample Spearance: (NOTE Thanks 187 Might 1197	72.7	_	LF	31050
Notified	27	\times	Magnesium Ng	7300 -
Collector comments:	32	<u> </u>	Manganese Mn	1-1-2-
701100 UNI COMMICTION.	8	\geq	Mercury Hg	5.0
11	45	Y	Nickel S	4200
llected by Div. or Company	51		Nitrate-nitrite	. X X
	56		Oil and Grease	. <u>X </u>
insported by Div. or Company			pik (unito)	X Y . Y . S . K
LAB USE ONLY To the Comments:	63	7.	Phenol is	0.00
Lao II Phenolics	_ 70	Γ	Phosphoric 7	. X X
(27)	(36) 175	X	Potassium K	680 · A A
heard of fund line in / h 9 . mg / kg	}			nowo60
Cample acceptable YES !!?	(46)	Г		11 V V 1
Cample properly preserved. YES NO Dry Wt.	(56) 31	V	R.O.E. (180°C)	16
Date . warded MAD a too		1	Colordum Ce	/ K Y Y
$\frac{1}{(57)}$ $\frac{1}{2}$ \frac	26) 20	H	Silver Ag	
pervisor Signature	44	-	Codium Na	
.lame (87) ± ((76) 49	-	SC (amhos/em)	<u> </u>
Addre: Private Lab (X)	53	-	Sulfate SO ₄	<u></u>
IEPA Lab (X)	58		The In	ILLEZ . LLLA
IEPA - CHAMPAIGN LAB disamples. *Values	63	Ļ	8 201192	30.6
Recid. B034064 in the lab comments see	tion;		lkalinity is to be aCO3 at pH 4.5.	ietermined as ppm of
		2 _C ;	vanile is to be re-	justed as free cyanide.
JAN. 22. 1982				SPECIAL HANDLING

4	\		(
Time Collected:	10:20 A.M 17:	OOPAL,	Lab #	D027463
Date Collected:	DEC. 9, 1997	SPECIAL ANAI		eived JAN 24 (C93
			PROTECTION AGENO	
COUNTY:	. ^	FILE HEADING:		FILE NUMBER:
57. CL	<u> </u>	SAUGET/CLA	YTON CHEMICA	L 16317104
SOURCE OF SAMPL	E: (Exact Locati	on) OBTAIN	VED FROM	THE SIDEWALL
OF A REC	ENT EXCAL	IATION A	PPROXIMATEL	Y 70 FEET
WEST OF	SAMPLING	POINT F	OR SAMPL	LE # 18.
PHYSICAL OBSERV	ATIONS, REMARKS:			
COMPOSITE	SOIL SA	MPLE TH	AKEN FROM	U DEPOSITS
ALONG TH	F SIDEWA	LL OF TH	E EXCAVA	TION'S FROM
0"- 9".	SAMPLE	JAR #	19.	
TESTS REQUESTED	: PCB 15			
	. // 01			2 /
COLLECTED BY:	amela A. Mon	7527	RANSPORTED BY:	Mill Car tuy
76	har. E. E. Jan	DATE DATE	CORY	124 (0.00)
RECEIVED BY:	5.B.	COMPLETED:	2/9/8	
				Huraer
PCB5 =	= 120, 14, 1	·		
01-4000	rgances N	ot dotoe	ted in th	he extract
	s sumple			,
				<i>3</i> (3)
			4,	
				
-			·	
				1/2/AD
				•

Ken Mensing - Illinois EPA KAM

LPC General - St. Clair County - Sauget/Clayton Chemical Company Illinois Dioxin Sampling

On December 8, 1982, John Evans and I went to Clayton Chemical Co. in Sauget, Illinois for the purpose of obtaining soil samples to determine if dioxin contamination was present. I had previously contacted Dave Wieties of Clayton Chemical to inform him of the purpose and scope of our planned soil sampling. On December 8, 1982, we spoke with both Bud Haney and Dave Wieties of Clayton Chemical Co. Mr. Haney indicated that the only tanks that Bliss Waste Oil Service ever had on the property were the four 17,000 gallon tanks that are presently there along the northern boundary and an old tall tank that had a capacity of 130,000 gallons. This tank is no longer there, but was located east of the present tanks in an area that is presently rocked as a parking area for the Sauget Sewage Treatment Plant. Mr. Haney said that the tank was initially a water storage tank for the railroad. He further stated that the Village of Sauget or the sewage treatment plant bought the property from the G.M.&O. Railroad, which is now the I.C.G. Railroad. Mr. Haney identified the area where the tank had been located to us. Dave Wieties accompanied us during the sample collection.

Sample #1 was obtained from an area that would have been under the center of the old tank. After digging and picking through the limestone rocked surface, we dug down into the underlying soil to a depth of eight inches. A composite sample was obtained from the soils encountered during the digging of the hole. Sample #2 was collected from the sidewall of a recent excavation approximately 20 feet west of sampling point #1. Deposits along the sidewall of the excavation were placed directly in a sample jer with a hand trowel from the surface down to eight inches. Sample #3 was obtained at the base of existing Tank #2 on the north side. The existing tanks are numbered #1 --#4 from east to west. Again at this sampling point, we had to dig and pick through a layer of crushed limestone rock to get down to soil. A composite soil sample was obtained from materials encountered by digging and picking away a hole six inches deep. The soil was oil soaked. Sample #4 was obtained at the base of Tank #3 along the south side. The same conditions were encountered and the same procedures used as in Sample #3.

The telephone number for Clayton Chemical Co. is 618/271-0467. All holes were adequately backfilled. The samples were collected between 10:30 a.m. and 12:00 p.m.

KGM:jlr

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

DATE:	1/21/83	
	view of Region V CLP Data $1/2/18$ 3 ceived for Review on	
FROM: Ču Ce	rtis Ross, Director Churk Elley for ntral Regional Laboratory	-
то: Da	ta User: KAR/ Bremen (Norm Niede	RJANG)
	have reviewed the data for the following case(s).	
EP/	TE NAME: Ilinois Dioxins A DATA SET NO. TOSB 1971-1975 NO. of 25 DU/ACTIVITY NOS. 83 TS18501 +0 83 TS17 SOL	SMO CASE NO. SAS 35, L306/C3240/
SMO	0 TRAFFIC NOS. 52045 / 6 5 2068	
		HOURS REQUIRED FOR REVIEW: ——
Fo	Refer to the commutes pri attached. PCB vista will be form a later date.	ntart and at
,		
•		
	· <u>-</u>	•
	<i>*</i>	
	•	
() () ()	Data are acceptable for use. Data are acceptable for use with qualifications noted Data are preliminary - pending verification by contract Data are unacceptable.	above. tor laboratory.
cc:		

Dr. Gene Meier, EMSL-Las Vegas
Robert Politikard, CLP, Campile Management Office

21-JAN-1983 07:46 From: XRSPAUL "a:XRSPAT 7351E 25R x 11C 21-JAN-83 8:58 Parts 1 1 CAL ID 11 DET. LIH. EFA ID UG/KG ≈ PP/ **≪** 0.25 1 B3TS10S01 4€0,25 2 837510502 52046 ∠0.25 l 52047 3 83TS10S03 <0.25 4 B3TS10S04 62048 < 0.25 x/ 5 B3TS10S0**5** S2049 52050 ___ 6 837510506 \$2051 <0.50 7 83TS11S01 52052 €0.25 _B 83T511502 ? 83TS11S03 52053 40.25 40.25 .10 83TS11S04 52054 S2055 <0.65 11 83TS11S05 业0.25学法 L2 83TS12S01 5205A S2057 13 83TS12S024 83TS12S03 \$205B 15 E3TS12S04 52059 52060 _NOT RELEVANT 5 14 15 E3TS13S01 17 83TS13S02 S2061 10_HETH_BLNK 52064HR 52062 19 83TS14S01 NOT RELEVANT 52063.. HOT RELEVANT " " 22.83TS14S02 21 63TS14S03 S2064 NOT RELEVANT 22. 83TS14S03IUP. S2064DUPL (HOT RELEVANTS) A 23 83TS14S04 62065 < 0.25 __1_B3T516S02 \$2067. 15 83TS17801 62068 . ANY VALUE NO REPORTABLE DIDXINS Reconstituted by Ofen 1/21/83

total todd

** Will be rerun probably by monday 1/24/83

Note: This is a compete print out and the background information of the formal data report will be received it a later date. Accordingly, please treat the report ind Mraft.

S TYPE TENP.DAT

21-JAN-1983 09:46 From:XRSFAUL

Henrikhel by

.. 5351E 258 x 11C

21-JAN-83 8158 Page 1

total tedd

TOWNERS BING LAND Y	11 DET. LIM. UG/KG = PPL	MOT RELEVANT 8 1 101 RE	
-17	1 CAL ID	\$2045 \$2045 \$2046 \$2046 \$2049 \$2051 \$2051 \$2055 \$2055 \$2055 \$2056 \$2066	,
. SEEL ZON X 11C	, EFA ID	1 031510501 2 031510502 3 031510503 4 031510503 4 031510503 6 031510503 7 031511501 9 031511501 10 031511503 11 031511503 12 031511503 13 031512501 13 031512501 14 031512501 15 031512501 17 031512501 18 031513503 19 031513503 10 031513503 10 031513503 11 031513503 12 031513503 13 031513503 14 031513503 15 031513503 16 031513503 17 031513503 18 031513503 19 031513503 10 031513503 10 031513503 11 031513503 12 031513503 13 031513503 14 031513503 15 031513503 17 031513503 18 031513503 18 031513503 19 031513503 10 0315135	

NO REPORTABLE THOYINS

** Will be now protesty

Time Collected: 10,77 A.//, Lab # SPECIAL ANALYSIS FORM	FEB 19 1983
Date Collected: 7-19-83 Date Receiv	ed
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	
DIVISION OF LAND/NOISE POLLUTION CONTROL COUNTY: FILE HEADING:	FILE NUMBER:
ST. CLAIR SAUGET / S.T.P.	740
	T POST OF
GBANT SIGN IN A DIRECT LINE TO THE	ELEC. POLE
INSIDE CLAYTON CHEMICAL FENCE.	
PHYSICAL OBSERVATIONS, REMARKS: SAMPLE JAR #	
COMPOSITE SOIL SAMPLE 0"-7" DE	D
COMPOSITE SOIL SHAFLE U = 1 VE	C/,
D-015	
tests requested: PCB'5	· · · · · · · · · · · · · · · · · · ·
	1 01
COLLECTED BY: Kinglik & Minding TRANSPORTED BY: Page	th & Mensing
LABORATORY	<i></i>
DATE	DATE
RECEIVED BY: Akuley COMPLETED: 3/4/83	FORWARDED: 3/4/83
	2 Huley
PCBs = 1.5 mg/g (PPM)	v
3/9 (11/	
	BENEFITED
	RECEIVED
	MAR 18 1983
	E.P.A D.L.P.C.
	STATE OF ILLINOIS

D027761

(JA)

0027762

Time Collected: 10.47 A.M. Lab # SPECIAL ANALYSIS FORM	FEB 19 1983
Date Collected: 7-19-83 Date Reco	
ILLINOIS ENVIRONMENTAL PROTECTION AGE	NCY
DIVISION OF LAND/NOISE POLLUTION CONTI	ROL FILE NUMBER:
ST. CLAIR SAUGET / S.T.P.	rinc Number:
SOURCE OF SAMPLE: (Exact Location) 18" 5007H OF	= THE 7TH
	r 22, 20 17
POST FROM THE GATE NEAR STAK	1 1.1
19" WEST OF SURVEY STAKE & 17	SOUTH
PHYSICAL OBSERVATIONS, REMARKS: SAMPLE JAR # 5	2A
COMPOSITE SOIL SAMPLE 0"-7"	DEEP,
TESTS REQUESTED: PCB 15	
	of don
COLLECTED BY: Kinnella A. Minding TRANSPORTED BY:	andt A. Milling
/LABORATORY	<u> </u>
RECEIVED BY: A Hurly COMPLETED: 3/4/8	DATE 3 FORWARDED: 3/4/83
0	Q Huiley
PCBs = 7.6 4/9	
	RECEIVED
	NLULIVED
	MAR 18 1983
	E.P.A. — D.L.P.C.
	STATE OF ILLINOIS

(Jb)

0027763

Time Collected: 10 1777 A.M. SPECIAL ANALYSIS FORM
Date Collected: 7-19-93 Date Received Date Received
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL
COUNTY: FILE HEADING: FILE NUMBER:
ST. CLAIR SAUGET / S.T.P.
SOURCE OF SAMPLE: (Exact Location) 18" SOUTH OF THE 7TH
POST FROM THE GATE NEAR # STAKE 73 + 29,12
18" WEST OF SURVEY STAKE & 17" SOUTH
PHYSICAL OBSERVATIONS, REMARKS: SAMPLE JAR # 7.B
COMPOSITE SOIL SAMPLE 7"- 13".
•
TESTS REQUESTED: PCB'5
COLLECTED BY: Kinneth A. Mensing TRANSPORTED BY: Kinneth A. Mensing
LABORATORY LABORATORY
DATE DATE
RECEIVED BY: 4 Surein COMPLETED: 3/4/83 FORWARDED: 3/4/83
2 Huvey
PCBs = 0.39 ug/g
RECEIVED
MAR 1.8.1983
E.P.A. — D.L.P.C. STATE OF ILLINOIS
<u> </u>

	(3A)		
Time Collected: 11:10 A.M.		Lab #	0027764
Date Collected: 2-19-83	SPECIAL ANALYSIS	FORM Date Receive	EB 19 1983
	ENVIRONMENTAL PRO		
DIVISION	OF LAND/NOISE POL	LUTION CONTROL	
COUNTY: ST. CLAIR	THE HEADING: SAUGET	5.T.P.	FILE NUMBER:
SOURCE OF SAMPLE: (Exact Location	on) 75' W	EST OF	SOUTH
GATE POST.			
PHYSICAL OBSERVATIONS, REMARKS:	SAMPLE U	IAR # 31	1
PHYSICAL OBSERVATIONS, REMARKS: COMPOSITE SOIL	SAMPLE	0"-7"	
		·	
		· · · · · · · · · · · · · · · · · · ·	
TESTS REQUESTED: PCB 15			
- 4		7/	A 02
COLLECTED BY: Kenneth . M.	Conding TRANSP	ORTED BY: Kinn	th S. Menling
<u> </u>	DATE	<u> </u>	DATE
RECEIVED BY:	COMPLETED:	3/4/8	FORWARDED: 3/4/83
			Q March
PC Bs = 9.1 ug/	g	· · · · · · · · · · · · · · · · · · ·	
	<u> </u>		
			RECEIVED
			MAR 18 1983
			FPA - D.L.P.C.
			STATE OF ILLINOIS

··· (3 B)
Time Collected: 1.15 A.M. SPECIAL ANALYSIS FORM Date Collected: 7-19-93 SPECIAL ANALYSIS FORM Date Received
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND/NOISE POLLUTION CONTROL COUNTY: ST. CLAIR SOURCE OF SAMPLE: (Exact Location) 75' WEST OF SOUTH GATE POST.
PHYSICAL OBSERVATIONS, REMARKS: SAMPLE JAR # 3B COMPOSITE SOIL SAMPLE 7''-13"
TESTS REQUESTED: PCB'5
COLLECTED BY: Kenneth &, Mencing TRANSPORTED BY: Kenneth &, Mencing GABORATORY
RECEIVED BY: Shuring COMPLETED: 3/4/8 FORWARDED: 3/4/5= PCBs = 0.04 ng/g
RECEIVED
MAR 18 1983 E.P.A. — D.L.P.C. STATE OF ILLINOIS

(HA)

CDECTAL AVALVOTO ECOL	Lab #	D027766
Date Collected: 7-19-83 SPECIAL ANALYSIS FORM		FF9 19 1983
ILLINOIS ENVIRONMENTAL PROTECT	ION AGENCY	
DIVISION OF LAND/NOISE POLLUTION	ON CONTROL	
ST. CLAIR SAUGET / S.	T 0 F	ILE NUMBER:
SOURCE OF SAMPLE: (Exact Location) 69' WEST		1 PERMANENT
FENCE POST, 39' EAST OF HE	LMKAN	IP YARD
GATE,		,
	^ · · · · · · · · · · · · · · · · · · ·	
PHYSICAL OBSERVATIONS, REMARKS: SAMPLE JAI	C # 4A	2
COMPOSITE SOIL SAMPLE O"-	6"	
		
		
TESTS REQUESTED: PCB'S		
	·	
COLLECTED BY: Kenneth A. MenDing TRANSPORTER	BY: Kenned	h & Men Pina
/ LABORATORY		
DATE	1.10	DATE
RECEIVED BY: Surley COMPLETED: 3	1413	FORWARDED: 3/4/83
		<u> </u>
PCB = 20. ug/g		_
		
	·	DECENTE
		NEOLIVED
		MAR 18 1983
		E.P.A D.L.P.C.
		STATE OF ILLINOIS

46

Time Collected:	11:40 A.M.		Lab #	D027767	
Date Collected:	7-19-83	SPECIAL ANALY	Date Rece	ived <u>FEG 19 1983</u>	_
			PROTECTION AGENC	T	
COUNTY:		OF LAND/NOISE .	POLLUTION CONTROL	FILE NUMBER:	_
ST. CLA	1R	SAUGET	15.T.P.		
SOURCE OF SAMPLE:	(Exact Location	on) 691 W	EST OF	9.TH PERMAN	<u>E</u> ~7
FENCE POS	5T. 39'	EAST OF	= HELMKY	AMP YARD	
GATE,					
DUVETCAL OPERDIVATE	TONG DEMADES.	51.015	118 # 11 1	 3	
PHYSICAL OBSERVAT	TONS, REMARKS:	SAMILE	VAX 4 41)	
_COMPOST	1t 501L	SAMPLE	6"-13		_
		 			
TESTS REQUESTED:	PCB15				
- <i>i</i>	-// 04 .	·		-// n/ a	
COLLECTED BY: KC	with A. Me	7-201-9	SPORTED BY: Ke	mille H. Men	Zeng
		LABORATO	RY	DAME	_
RECEIVED BY:	Surley	DATE COMPLETED:	3/4/3	DATE FORWARDED: 3/4	UB
<i></i>	0			Shul	ey
PCBs	= 54. ug	/a_			
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***************************************		·		NEUZIVED	-
***************************************		der versiert van 1900 van 190		MAR 18 1983	_
				L.P.A D.L.P.C.	
				STATE OF ILLINOIS	
			<u> </u>		

(5 A)

Time Collected:	14.110 NOON		ANTATVOTO	Lab #	المراجعة المراجعة	68
Date Collected:	7-19-33	SPECIAL .	ANALYSIS :	Date Rece	ived FEA 19	1983
				ECTION AGENC		
COUNTY:		FILE HEADI		UTION CONTRO	FILE NUMB	DR:
ST. CLAI	_	SAUGE		T.P.		
SOURCE OF SAMPLE:	: (Exact Location	on) 75	WES	OF OF	CORNE	R
OF NEW	PUMP 5	TATIO.	N.			
PHYSICAL OBSERVAT	TIONS, REMARKS:	SAMPL	LE JA	R # 5	A	
COMPOSIT			-		4	
		27.77		<u> </u>		

TESTS REQUESTED:	01815	 			·	
TESTS REQUESTED:	rco		,			
				 		
COLLECTED BY:	enseth G.)			RTED BY:	meth A.	Menting
	· · · · · · · · · · · · · · · · · · ·		ORATORY		5100	<i></i>
RECEIVED BY:	Hincin	DATE COMPLETE	D:	3/4/8	DATE 3 FORWARDE	D: 3/4/83
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PCBs =	32. ug/g	s			~~~	
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		-, ,	····		- 	
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*** *** <u> </u>	·····			···	REU	EIVED
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LPC-8A 4/77

(NOT FOR DATA PROCESSING)

; at	(5	B)		
Time Collected: 17:10 P.M.	SPECIAL	ANALYSIS I	Lab # FORM	DO 27769 FEB 19 1983
Date Collected: $2-19-83$			Date Recei	ved
DIVISION			ECTION AGENCY UTION CONTROL	
ST. CLAIR	GAUG	<i>(</i>	6, T. P.	FILE NUMBER:
SOURCE OF SAMPLE: (Exact Location	m) 75	' WE	57 OF	CORNER
OF NEW PUMP				
PHYSICAL OBSERVATIONS, REMARKS:	SAME	LE JA	9R # 5	B
COMPOSITE SOIL				
			····	
TESTS REQUESTED: PCB'5				
	-		- /	1/0/20
COLLECTED BY: Kennell: 4. M.	n Ding	TRANSPOR ORATORY	RTED BY: 10n	rel A. INInDing
2727777 211 () // 2	DATE	 	3/4/5	DATE
RECEIVED BY: Stringer	COMPLETE	ט:	3/4/1	FORWARDED: 3/4/8
PCBs = 20. ug/g				
-1003 = 00.29/g				

				RECEIVED
				MAR 18 1983
		·		E.P.A. — D.L.P.C.
			<u> </u>	STATE OF ILLINOIS

(b)	
Time Collected: 17:30 P.N. Lab # Date Collected: 7-19-93 SPECIAL ANALYSIS FORM Date Rece	D027770
ILLINOIS ENVIRONMENTAL PROTECTION AGENC	TERTY 1983
DIVISION OF LAND/NOISE POLLUTION CONTRO COUNTY: FILE HEADING:	
ST. CLAIR SAUGET S.T.P.	
SOURCE OF SAMPLE: (Exact Location) 3' WEST OF	NORTH POST
OF HELMKAMP YARD GATE.	
PHYSICAL OBSERVATIONS, REMARKS: SAMPLE JAR #6	
COMPOSITE SOIL SAMPLE 0"-8".	
TESTS REQUESTED: PCB '5	
COLLECTED BY: Kenneth St. Mensing TRANSPORTED BY: XV	month A. Menser
DATE	DATE
RECEIVED BY: COMPLETED:	FORWARDED:
PCB5 = 0.12 mg/g	
	RECEIVED
	MAR 18 1983
	E.P.A. — D.L.P.C. STATE OF ILLINOIS



12161 tackland Road, St. tours, Microun 63141 131414244966

April 6, 1983

Mr. Harold Baker Baker and Schrivner 56 South 65th Street Belleville, Illinois 62223

Dear Mr. Baker:

Envirodyne Engineers, Inc. (EEI) is pleased to submit the results of the analyses of soil samples for 2,3,7,8-TCDD and PCB's. The samples collected on February 19, 1983 were analyzed for 2,3,7,8-TCDD and total PCB's and the samples collected on March 12, 1983 were only analyzed for 2,3,7,8-TCDD. The field notes made during sample collection are appended to this report.

Sample Preparation and Analysis

- A. 2,3,7,8-TCDD: The soil samples were prepared and analyzed for 2,3,7,8-TCDD using the procedure described in the February 1983 revision of "USEPA, Region VII Method for Determination of 2,3,7,8-TCDD in Soil and Sediment". All quality assurance procedures described in that method were used. The internal standard was ¹³C-2,3,7,8-TCDD and cleanup Option A described in the method was used. All analyses were by low resolution GC/MS using a 30m DB-5 fused silica capillary column.
- B. PCB: The soils extracted in a somhlet apparatus and analyzed by GC/EC Standards of Arochlor 1242, 1254 and 1260 were used to calculate PCB concentrations in the samples. One sample (EEI No. 44692) was analyzed in duplicate and a blind EPA performance sample was also analyzed as a check on method performance.

Results/Decision

The analytical data for these samples are summarized in Tables 1-3. Tables 1 and 2 summarize the data for the analysis of 2,3,7,8-TCDD and PCBs in the samples collected on February 19, 1983, and Table 3 summarizes the 2,3,7,8-TCDD data for analysis of samples collected on March 12, 1983. There are several samples from both sets which contain concentrations of 2,3,7,8-TCDD ranging from 5.1 ng/g to 170 ng/g.

Mr. Harold Baker April 6, 1983 Page Two

The recovery of the internal standard for sample 44696 is below the recommended minimum (25%) for the method. no obvious explanation except that all internal standard recoveries for the samples collected on February 19, 1983 were lower than expected. The estimated analytical detection limits for 2,3,7,8-TCDD in several samples collected on March 12, 1983 are higher (most notably Samples 45000-45003) than the 1 ng/g (1 ppb) detection limit required by the Region VII Method. The reason for this is the presence of compounds (probably PCBs) which interfere with accurate analysis of 2,3,7,8-TCDD. In one sample (Sample No. 44997) the concentration of interferences is so high that no reliable estimate of the concentration of detection limit could be made for this sample, although inspection of the chromatogram and data for other samples obtained from this location indicates that there is a high probability that this sample contains 2,3,7,8-TCDD.

The samples from Sample Location 9 all have high detection limits due to the presence of interferences. These samples should be reanalyzed using alternative cleanup procedures.

The data for the PCB analyses of the samples collected on February 19, 1983 are summarized in Table 2. Measurable concentrations of PCB's were found in all samples collected on February 19, 1983 and ranged in concentration from 28 ng/g in Sample 44691 to 149,600 ng/g in Sample 44693. Also, included in this table is a list of the probable PCB mixtures contained in each of these samples.

Conclusions and Recommendations

Substantial number of samples contain 2,3,7,8-TCDD in excess of 1 ng/g with a maximum observed concentration of 170 ng/g. The CDC has proposed a limit of 1 ng/g as maximum level of 2,3,7,8-TCDD in soils for protection of human health. In addition, EPA has announced their intention to classify chlorinated dioxins as an "Acutely Hazardous" substance which will significantly restrict disposal options (Federal Register, March 17, 1983).

Mr. Harold Baker April 6, 1983 Page Three

- 2. Substantial number of samples contain high levels of PCB's. In particular, three samples contain PCB's in excess of 50 parts per million (50,000 ng/g) which will restrict disposal options.
- 3. Samples from Sample Location 9 should be reanalyzed using alternative cleanup procedures to determine at a lower detection level, the presence or absence of TCDD.
- 4. The samples collected on March 12, 1983 should be analyzed for PCB's.
- 5. The analytical results obtained to date should be transferred to a base map of the site and concentration isopleths developed to guide further investigation and remedial measures.
- 6. It is likely that disposal or on-site containment of contaminated soil will be required. In this event, additional depth-discrete sampling and analysis for TCDD and PCB's will be required to determine quantities of soils to be handled and suitable disposal or containment methods. This activity, if required, should be carefully planned and executed.

If you have any questions regarding this information, please feel free to contact me.

Sincerely,

David C. Kennedy, Ph.D.

Vice President/Office Manager

EMH/nja

Attachments

ANALYTICAL DATA SUMMARY
FOR ANALYSIS OF SOIL SAMPLES
FOR 2,3,7,8-TCDD

Sample	Desc	Date Collected	EEI Sample No.	TCDD (ng/g)	Percent Recovery
1.	0-7"	2/19/83	44687	<0.46	25
2A	0-7"	2/19/83	44688	<0.74	24
2B	7"-13"	2/19/83	44689	<0.32	26
3A	0-7"	2/19/83	44690	<0.16	28
3B	7"-13"	2/19/83	44691	<0.46	27
4 A	0-6"	2/19/83	44692	<0.21	50
4B	6"-13"	2/19/83	44693	<0.38	4 4
5A	0-6"	2/19/83	44694	28	43
· 5B	6"-14"	2/19/83	44695	5.1	41
6	0-8"	2/19/83	44696	<0.56	18
6 (duplicate	0-8"	2/19/83	44696D	<0.41	26 .

TABLE 2

ANALYTICAL DATA SUMMARY
FOR PCB ANALYSIS OF COIL SAMPLES

Sample	Desc.	Date Collected	EEI Sample No.	PCB (ng/g)	Comments
		2/19/83	44687	3,690	Arochlor 1242, 1254
1	0-7"	2/19/83	44688	5,350	Arochlor 1242, 1260
2Λ	0-7"	2/19/83	44689	716	Arochlor 1242
2 B	7"-13"	•	44690	137,250	Arochlor 1242, 1260
3A	0-7"	2/19/83	44691	28	Arochlor 1242, 1260
3в	7"-13"	2/19/83	44692	21,020	Arochlor 1242, 1254
4 A	0-6"	2/19/83	44692D	15,510	Arochlor 1242, 1254
4A	0"-6"	2/19/83	440325	·	1260
(duplicate	6"-13"	2/19/83	44693	149,600	Arochlor 1242, 1260
4B	-	2/19/83	44694	112,930	Arochlor 1242, 1260
5A	0-6"		44695	12,050	Arochlor 1242, 1260
5B	6"-14"	2/19/83	44696	90	Arochlor 1254
6	9-8"	2/19/83	44000		

TABLE 3

ANALYTICAL DATA SUMMARY
FOR ANALYSIS OF SOIL SAMPLES
FOR 2,3,7,8-TCDD

Sample No. 7A 7B 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 11A 11B 12 13A 13B 14	Date Collected 3/12/83	EEI Sample No. 44994 44995 44996 44997 44998 44999 45000 45001 45002 45003 45004 45005 45006 45007 45008 45009 45010 45011 45012 45013	Desc. 0-6" 8-16" 0-6" 6-12" 13"-18" 18-25" 0-6" 6-12" 14-21" 22-28" 0-6" 6-12" 0-6" 6-18" 10-14" 0-7" 7-18" 0-6" 0-16" 0-16"	TCDD (µg/Kg) <0.43 <0.45 44 Interferences 19 37 ,56 / <53 / <45 <3.9 <11 <0.13 13 <10 <4.6 <0.39 <1.5 <0.5 <0.86 13 170 /	84 100 82 219 100 95,85 7 110 98 75 65 74 78 80 87 58 76 76 77 84
1.5 1.6	3/12/83		0-18"	2,0	

SAMPLE #	DESCRIPTION	
7A	60' west of power pole, in line with N. end of Admin. Bldg. O to 6" gravely sand	EPA/ENVIR
7B	8 to 13" Sandy gravel 13 to 16" Grayish Brown loamy sand	EPA/ENVIR.
8A	40' East of S.W. corner stake for Effluent pump station - In line with S. end of locker Bldg. 13' North of Southeast corner post 0 to 6" grayish brown sand loam	ENVIR.
8B	6" to 12" Loamy sand - grayish brown - Wood debris	EPA/ENVIR.
8C	13" - 16" as above - loamy sand, grayish brown 16" - 18" Yellowish brown - fine sand	ENVIR.
8D	18" - 25" yellowish brown - fine sand	EPA/ENVIR
9A	3 ft. S.W. of N.E. corner stake post 0" - 5" Brownish grey - sandy loam 5" - 6" Loamy sand - greyish brown	EPA/ENVIR
9B	6" - 12" Greyish brown - loamy sand with hunk of silty clay artifact	ENVIR.
9C	14" - 21" intermixed color - loamy sand to medium sand	EPA/ENVIR.
90	22" - 28" very dark greyish brown loamy sand, last 2" intermixed with light yellowish brown medium sand	ENVIR.
10A (CS#2)	Control Sample	
10B (CS#2A	Control Sample	
11	4 ft. N. W. of Line A Marker 20 +42.35 on line with marker 0+15 line B	
111	0 - 5" brownish grey loam 5 - 6" yellowish brown medium sand	ENVIR.
118	6" - 7" yellowish brown medium sand 7" - 18" dark brownish grey loamy sand, some gravel with cinders and glass debris	EPA/ENVIR.
12	10 ft. N. W. of N. W. corner of Effluent Pump Station	
12A	10" - 19" yellowish brown - fine sand	ENVIR.
13	3 ft N. W. of stake 0 ÷ 15 Line E	
137.	0 - 6" light grey gravely sand 6 - 7" Very dack greyish brown lodmy sand	ENVIR.

13B	7 - 18" Very dark greyish brown loamy sand, some slag present.	EPA/ENVIR.
14	Random pile sample from West and North fence area (8 locations) Generally 0 - 6" Textures vary from sand, loamy sand, and sandy loam	ENVIR.
15	South central area with water standing — inside S. boundary of pump station. $0-8$ " varies from sand to loamy sand Various locations $0-14$ " greyish medium sand — sedimentation $14-16$ " very dark brown loam with debris	EPA/ENVIR.
16	North central area with water standing $0 - 18$ " - texture varies from loamy sand to sandy loam $0 - 10$ " - silty clay loam to loam $0 - 6$ " - loam Seven cores in total	EPA/ENVIR.

PRESENT: John Zelle - American Bottoms Rick Snarski - Envirodyne Sampler

Ken Mensing - I.E.P.A.

C. J. Marciante - Sauger Wastewater Treatment Plant

HAZLETON RALTECH, INC.

St. Clair Co GEN SAUget S.

REJEIVE

APR 1.21983

3301 KINSMAN BLVD. • P.O. BOX 7545 • MADISON, WI 53707 • (608) 241-4471 • TLX 260098 HAZRAL MDS

April 6, 1983

Mr. John Hurley State of Illinois EPA Division of Laboratories 2200 Church Hill Road Springfield IL 62706

Dear Mr. Hurley:

Please find enclosed the analytical results of the analyses performed on samples received on February 28 and March 21, 1983. The samples were analyzed according to protocols established in the enclosed methodology.

As you are aware, your samples contained polychlorinated biphenyls which interfered with our measurement of the surrogate/interval standard added at a level of 2.5 ppb in the sample. The cleanups employed in the methodology were unsuccessful in eliminating the interference. Several samples in the original set and all of the samples in the second set were cleaned up using florisil column chromatography which eliminated the PCB interference.

Thank you, Mr. Hurley, for choosing Hazleton Raltech, Inc. Please feel free to call if you have any questions or further needs.

Sincerely,

Joel R. Baseley
Section Supervisor
Mass Spectrometry

Gel R. Bussle

JRB/km

Table 1
Soil Samples Received February 28, 1983
Results for TCDD Analyses Using a Jar Extraction

HRI Sample Number	Description: Composite Soil	Cleanup	TCDD (ng/g)	Detection Limit (ng/g)	Recovery of Surrogate (%)
744352 Duplicate	1 (0" to 7")	A, B	ND ND	0.50 0.40	110 100
744353	2A (0" to 7")	A, B, C	ND	0.50	63
744354	2B (7" to 13")	A, B	ND	0.30	76
744355	3A (0" to 7")	A, B, C	ND	0.90	36
744356	3B (7" to 13")	А, В	ND	0.40	53
744357	4A (0" to 6")	А, В	ND	0.10	86
744358	4B (6" to 13")	A, B, C	ND .	0.20	43
744359 Duplicate Triplicate	5A (0" to 6")	A, B, C	18 17 18*	- - -	67 103 108
744360 Spike**	5B (6" to 14")	A, B, C	4.1	- -	47 30
744361	6 (0" to 8")	A, B, C	ND	0.30	63
Method Blank		A, B, C	ND	0.10	95

A = Silica cleanup.

B = Alumina cleanup.

C = Florsil cleanup.

ND = Not detected.

^{* =} Confirmed by partial scan.

^{** =} Recovery of spiked TCDD was 113%.

Table 2
Soil Samples Received March 23, 1983
Results for TCDD Analyses Using a Jar Extraction

HRI Sample Number	Description: Composite Soil	TCDD (ng/g)	Detection Limit (ng/g)	Recovery of Surrogate (%)
949717	7A (0" to 6")	ND	0.69	77
949718	7B (8" to 16")	1.8	-	120
949719	8B (6" to 12")	77*	- ,	99
949720 Duplicate Spike**	8D (18" to 25") 8D (18" to 25")	ND ND -	0.30 0.60 -	118 112 86
949721	9A (0" to 6")	1.3	- · ·	106
949722	9C (14" to 21")	ND	0.60	74
949723	10A (0" to 6")	0.92	-	63
949724	10B (6" to 12")	12	. -	87
949725	11B (6" to 18")	ND	0.58	103
949726	13B (7" to 18")	ND	0.67	62
949727	15 (0" to 16")	13*	-	66
949728	16 (8" to 18")	25*	-	92
Method blank	-	ND	0.30	75

Note: All samples were cleaned up on silica, alumina, and Florisil columns.

ND = Not detected.

^{* =} Confirmed by partial scanning.

^{** =} Spike recovery was 86%.

Page	1	of	/

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHAIN OF CUSTODY

APR. 20. 1984

I certify that the samples listed below were collected in my presence and that each

Site Inventory N	0. General		County <u>st. c.</u>	air	
Federal I.D. No.	None		Sauget Ser (Facil	/ Sauges	t 57P
Sample No.	Consisting of Indicated In	No.	Date Collected	T:	ime aled
			RECEIVE		AM/PN
			4PR 23 1984		AM/PI AM/PI AM/PI AM/PI
			EPA - D.L.P.	C. ————————————————————————————————————	AM/P
Sealer's Signatu Sampler(s)	re <u>N. Mah</u> Validands	fault	Date <u>4-18-8</u>	γ Time <u>2:3</u>	60 <u>55</u> /P
Sampler(s)	ived the above sa	amples, with	each seal on each b		
Sampler(s)	ived the above sa s written on each	amples, with	each seal on each b		
Sampler(s) I certify I rece sealer's initial Relinquishe	ived the above sas written on each de) Date 4-18-84	Time 2:45 PM 2:59 M/PM 2:59 M/PM	each seal on each bl. Received By (Signature) Peru Mann Mann Mann Greyhound Bus Ch	Date 4-18-54	Time 2:45AM 2:22AM 2:59AM 7:30AM
I certify I rece sealer's initial Relinquishe By (Signatur Halla er Dem Marce/R Did	ived the above sas written on each de) Date 4-18-84 4-19-84	Time 2:45 PM 2:45 PM 2:59 PM	each seal on each black Received By (Signature) Perry Mann Marko R. Disco Greyboard Rus (1)	Date 4-19-54 4-19-81	Time 2:45AN 2:22AN 2:59AN

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

CARRIERS	SAMPLING TEAM
I certify I received the sealer's initials writter Relinquished By (Signature) Halland Mannager	Site Inventory No. Federal I.D. No. Sample No. Sealer's Signature Seapler(s)
above samples, on each sample Date Time 5-2-69 2:45	Consisting of the Indicated No. of Bottles
Received By (Signature) Received By (Signature) Received By (Signature) Received By (Signature)	County St Clary Sauget St Super (Facility Name) Date Collected Signature 4-18-84 Z:4 Date 4-18-84 Time Z:
Date Time Date Time 4-15-84 2.35 M/PM AM/PM AM/PM	Name Time Sealed Z:40 AM/PM

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area. E.P.A. — D.L.P.C. STATE OF ILLINOIS

AM/PM AM/PM

MAY 04 1984

AM/PM AM/PM

Signature Donet Cuide

Date 50

Time //.30(A.I) P.H.

Time Collected: 10:00 A Lab # SPECIAL ANALYSIS FORM	HU37807
Date Collected: 4-18-84 Date Received	APR. 20. 198
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	
DIVISION OF LAND/NOISE POLLUTION CONTROL COUNTY: FILE HEADING: FILE	NUMBER:
	eneral
SOURCE OF SAMPLE: (Exact Location) Sample #/	
Vacuum Filter Cake	
PHYSICAL OBSERVATIONS, REMARKS:	
THISTORE UDGERVATIONS, REMARKS:	
	
TESTS REQUESTED: (EP Tox Matals)	
TESTS REQUESTED: EP Tox Metals	
TESTS REQUESTED: EP Tox Matals	
TESTS REQUESTED: EP Tox Matals COLLECTED BY: Mahlandt TRANSPORTED BY:	
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COLLECTED BY: Mallandt TRANSPORTED BY: LABORATORY RECEIVED BY: Angla Rund COMPLETED: FOR Cd 440 Ba 420 Cr 580 Hg 39.3 Cu 8800 As 162 Fe 102,000 Se 23.2 CAIA DE COMPLETED Pb 2600 RECEIVED CAIGNETING	CHAN
COLLECTED BY: Maklandt TRANSPORTED BY: LABORATORY DATE COMPLETED: FOR Compl	CHAN



12161 Lackland Road, St. Louis, Missouri 63146 (314) 434-6960

REPORT OF ANALYSIS

Environment • Energy • Transportation

SUBMITTED BY: Mr. Bill Sago

-Russell- & Axon

Suite 700 319 North 4th

St. Louis, MO.

63102

DATE: 8/24/84

PROJECT NO. 2023-00039

P.O.

DATE RECEIVED: 7/20/84

SAMPLE ANALYZED: soil Samples

METHODS USED: Method for Chemical Analysis of Water & Wastes EPA 1983

RESULTS:

East side 30' NCFS tube - 5.73% Oil & Grease Dirt Pile, West side - 0.200% Oil & Grease

Organic results listed on separate summary sheet.

RECEIVED

SEP 0 4 1984

ILL. E.P.A. - D.L.P.C. STATE OF ILLINOIS

ENVIRODANT ENCINEERS



12161 Lackland Road, St. Louis, Missouri 63146 (314) 434-6960

REPORT OF ANALYSIS

Environment • Energy • Transportation

SUBMITTED BY: Mr. Bill Sago

Russell & Axon

Suite 700 319 North 4th

St. Louis, MO.

63102

DATE: 8/24/84

PROJECT NO. 2023-00039

P.O.

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RESULTS:

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Organic results listed on separate summary sheet.

RECEIVED

SEP 0 4 1984

ILL. E.P.A. - D.L.P.C. STATE OF ILLINOIS

ENVIRODYNE ENGINEERS

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	4-chlorophenyl phenyl	ether			 	 	 	<u> </u>		
	chrysene* (see 5B)				<u> </u>	 	Ļ			
	dibenzo(a,h)anthracen	е	<u> </u>			<u> </u>	<u> </u>	ļ		
20B	1,2-dichlorobenzene		<u> </u>	12.2						·
21B	1,3-dichlorobenzene						<u> </u>			
22B	1,4-dichlorobenzene			8.01				<u> </u>		
23B	3,3'-dichlorobenzidin	е								
24B	diethyl phthalate									
25B	dimethyl phthalate									
26B				5.06	0.100					
	2,4-dinitrotoluene		 	1	1	<u> </u>				
28B				 	 	 	<u> </u>	1		
29B					 	 	 	 		
30B	1,2-diphenylhydrazine			 	 	 	 	 	 	
1308	(as azobenzene)		İ	į.	1	1		1	İ	1
1318	fluorantnene			 	 	 	 	 	 	
31B				 	 	 		ļ	 	
32B	fluorene			 	 	 	 	 	 	THE WAR
33B	hexachlorobenzene				ļ	 	ļ	 	-	n n n d m
34B	hexachlorobutadiene			<u> </u>	 	 	 	ļ <u>.</u>	Speck !	3 4 12
35B	hexachlorocyclopentad	lene		ļ	ļ	 	ļ	 		1. 1. 100 A
36B	hexachloroe thane				<u> </u>	<u> </u>	<u> </u>		J SEN	7 <u>4.1984</u>
37B	indeno(1,2,3-cd)pyren	e				<u> </u>	<u> </u>			
38B	isophorone								, EP	A. THINC
39B	naphthalene					<u> </u>	<u> </u>		TATE	OF ILLI
40B	nitrobenzene								V .	
41B	N-nitrosodimethylamin	е					}			
42B	N-nitrosodi-n-propyla	mine								
4 3B	N-nitrosodiphenylamin		~ ~ ~ ~	1	† 	1				
44B	phenanthrene* (see 3B		100	1.6						
45B	pyrene		102	2.1		1				
46B	1,2,4-trichlorobenzen	e	65.3	1.6						
`·					 					
Pest	icides		Not Rec	uested	 	<u> </u>		ļ		
1P	aldrin			-			}	1	ł	
2P	α-внС				 	 	 	ļ		
3P	β−ВНС				 	 	1			
4P	у-внс			 	 	 	 			
5P	б-внс		<u> </u>			 	——			
6P	chlordane							 	 	
7P	4,4'-DDT			 		 			 	
8P	4,4'-DDE			 	 	 	 		 	
9.0	4,4'-DCD				 		 	 	 	
10P	dieldrin			 	 	 	 	 	 	
110	α-endosulfan			<u></u>		 		 		
12P				<u> </u>	 		 	ļ	 	
13P					 	 	 	 	 	
14P	endrin				 	 	 	 	 	
15P					 	 	 	 	 	
16P					 	 	 	 	 	
17P				ļ			 	 	 	
18P					 	 	 	ļ	 '	
19P	PCB-1254	<u> </u>			 	 	 		 	
20P		 				 	 	ļ		
		J	/+		 	 		ļ	 '	
21P	PCB-1232	by GC mg			ļ	 			 	
22P 23P			\$2070	59	ļ		 		 	
ょうマロ	PC3-1260	the CC mal	VT		t '	1	!	ſ	1	1
		by GC ma	ــــــــــــــــــــــــــــــــــــــ		 	 				
24P 25p	PCB-1016 toxaphene	Dy GC mq								

NOTES: (a) All results are reported in 19/9m unless otherwise noted.

	en en en en en en en en en en en en en e								
		4 BO		,	· · · · · · · · · · · · · · · · · · ·				
. ړي :	All Compounds - Thi No.	1/010011	: 						
	agrolein		Į p x	į					
ŽV.	acrylonitrile	 	·						
3V	benzenz	 	·	 					
4V	bis (chlorome thyl) e ther	1	1						
5 V	bremoform	1	1						
6 V	carbon tetrachloride								
7 V	chlorobenzene								
9V	chlorodibromomethane				<u> </u>				
9 V	chloroethane	<u> </u>							
10V	2-chloroethylvinyl ether	<u> </u>	<u> </u>		<u> </u>	, 			ļ
11V	chloroform								
127	dichlorobromomethane	ļ			ļ	ļ	ļ		ļ
	dichlorodifluorome thane	ļ		ĺ	ļ				
	1,1-dichloroethane	ļ							
	1,2-dichlorosthane	ļ			!	! 			
	1,1-dichloroethylene		<u> </u>	<u> </u>		<u> </u>			ļ
	1,2-dichloropropane	ļ			 	ļ			
	1,3-dichloropropylene		 	ļ	 			ļ	
	ethylbenzene		<u></u>		[
	methyl bromide		ļ		ļ				
	methyl chloride	ļ	}	ļ	 		- AL - AL - AL - AL - AL - AL - AL - AL	78 583	<u> </u>
	methylene chloride , 1,1,2,2-tetrachloroethane	}						den 1	 -
	tetrachloroethylene	ļ	 			<u> </u>			
	toluene	 				31	P 0 4 19	<u> </u>	
·	1,2-trans-dichloroethylene	 							
	1,1,1-trichloroethane		<u> </u>		 	ILL. E	17 Jy	DI PC	
	1,1,2-trichloroethane	 				STAT	E OF IL	-15:018	
	trichloroethylene		<u> </u>						
	trichlorofluoromethane	 	 						
<u> </u>	vinyl chloride	<u> </u>							
	T - b N-	62359	62360	Blank					
ACIO	Compounds - FRN No.	11297	11298	3280					
1A	2-chlorophenol								
1ZA	2,dichlorophenol			<u> </u>					
3A	2,4-dimethylphenol	50.1							
A A	4,6-dinitro-o-cresol	 							
5A	2,4-dinitrophenol	 							
6A	2-nitrophenol								
17A	4-nitrophenol								
ЗЛ	p-chloro-m-cresol								
91	pentachlorophenol	3600	159						
2.6.2	phenol								
13.1A	2,4,6-trichlorophenol	39.3							
se	Meutral Compounds - Lab No.								
1	FRN No.								
118	acenaph thene								
2B	acenaphthylene								
3B	anthracene					-			
4B	benzidine								
5B	benzo(a) anthracene*/Chrysene	123	2.2						
6B	benzo(a)pyrane	4.2	1.0						
7B	3.4-benzofluorantheme Benszo (K)	15.9	0.45						
8B	benzo(ghi) parylena	ļ							
9B 10B	benzo(k)fluoranthene* (see 7B)	 							
	bis (2-chloroethoxy) methans bis (2-chloroethyl) ether								
# 1 1 FA	and a contract the contract of				i i	1	į.	i	
1127	big(2-chlornisopropy)) ather								
127	bin(2-chloroisopropyl) ather	10.6		2 208					

						_			
SITE		East	West	:					
/0A	LAB NO.							ļ	İ
BURROGATES	FRN NO.								
								·	
		<u> </u>							
			1						
					 				
				 		 		l	
		 	 	 	 				
ACID	LAB NO.	62359	62360	Blank		 			<u> </u>
BURROGATES	FRN NO.	11297	11298	11296	 				
2-fluorophenol		ND	4.8	3.9	 				
		ND	3.3	4.1	<u> </u>	 			
d ₆ -phenol			 	 	 			 	
pentafluorophenol	<u>, ,</u>	ND	3.8	3.4	 		· ·		
				}	 	 	ļ		
-		 			 				<u> </u>
			 						
2105 (1151) 20 21	1	<u> </u>			<u> </u>	ļ	<u> </u>	ļ	
BASE/NEUTRAL	LAB NO.	<u>}</u>			ļ				ļ
BURROGATES	FRN NO.		<u> </u>		ļ	ļ	ļ		ļ
d ₅ -nitrobenzene	·	ND	6.3	4.0	<u> </u>	ļ	ļ <u> </u>		ļ
decafluorobiphenyl		6.9	8.2	5.1	<u> </u>	ļ	ļ		<u> </u>
dg-naphthalenc		6.7	8.9	3.6				<u> </u>	<u></u>
2-fluorobiphenyl		7.9	9.6	4.6	<u> </u>			ļ	
						<u> </u>		<u> </u>	
				Į			<u> </u>		<u> </u>

NOTE: All surrogates spiked at 10 mg/g (ppm) unless noted otherwise.

